

CLAIMS

1. Vessel designed to travel over a surface of a body of water or a waterway, and to collect on board waste that is present close to said surface, characterized in that it comprises means of retaining liquid waste which are able to trap and retain said waste, said means of retaining liquid waste being arranged on a trajectory of a water flow channel which is designed to connect a water inlet and a water outlet provided in said vessel.

2. Vessel according to Claim 1, characterized in that it also comprises means of heating an upper surface of the water flow channel.

3. Vessel according to either of Claims 1 and 2, characterized in that the means of retaining liquid waste comprise a holding tank which is designed to be passed through by the water flow channel when the vessel is moving.

4. Vessel according to Claim 3, characterized in that it also comprises means of regulating the temperature inside the holding tank.

5. Vessel according to either of Claims 3 and 4, characterized in that the holding tank has:

- . an inlet, designed to be connected to the inlet of the water flow channel, formed by an upper edge of said tank and designed to be placed close to the surface of the water, and

- . an outlet, designed to be connected to the outlet of said channel, formed by an orifice made in a bottom of said tank and designed to be obstructed by closure means when said tank is full of liquid waste.

6. Vessel according to either of Claims 4 and 5, characterized in that the closure means comprise a float having at least one surface capable of covering the orifice which forms the outlet of the tank, which float is made of a material having a density greater than that of the liquid waste and lower than that of water.

7. Vessel according to any one of Claims 1 to 6, characterized in that, with the means of retaining liquid waste being arranged on a first trajectory of the flow channel, said vessel also comprises means of retaining solid waste which are arranged on a second trajectory of said channel.

8. Vessel according to Claim 7, characterized in that, with the means of retaining solid waste being arranged upstream of the water flow channel with respect to the means of retaining liquid waste, the first and second trajectories of said channel are coincident between the inlet of the channel and an outlet of the means of retaining solid waste.

9. Vessel according to either of Claims 7 and 8, characterized in that the means of retaining solid waste comprise at least one grille arranged across the water flow channel.

10. Vessel according to Claim 9, characterized in that the means of retaining solid waste comprise a first and a second grille which project with respect to one another and are secured to one another so as to form an assembly, which assembly can move with respect to said vessel.

11. Vessel according to any one of Claims 1 to 10, characterized in that it also comprises a turbine designed to drive said vessel in motion, which turbine has an inlet

arranged downstream of the outlet of the water flow channel and an outlet designed to produce a jet of water towards the outside of said vessel, below the surface of the body of water or waterway.

12. Vessel according to Claim 11, characterized in that the outlet of the turbine is provided with a deflector which has an adjustable position, which position determines a direction of the jet of water produced by said turbine.

13. Vessel according to any one of Claims 1 to 12, characterized in that it is provided with at least two hulls which are secured to one another and are substantially parallel to one another, a distance separating said hulls defining a width of the water flow channel.

14. Vessel according to Claim 13, characterized in that it also comprises a fairing which connects the bottoms of said hulls, a distance separating said fairing from the surface of the body of water or waterway defining a depth of the water flow channel.

15. Vessel according to Claim 14, characterized in that a lower surface of the fairing is provided with rolling elements in order to facilitate the operations of moving the vessel on dry land.